

REMARKS

Claims 1-30 are pending. Claims 9, 17, and 24 have been amended. Reconsideration and allowance of the present application based on the following remarks are respectfully requested.

In the Drawings

The drawings were objected to for allegedly not showing every feature of the claims. Applicants respectfully submit the 37 CFR 1.81(a) requires drawings where necessary for the understanding of the subject matter sought to be patented and that the changing of the data signal by controlling the device is readily understood by the originally filed specification in paragraphs [0066] – [0068]. Applicants further submit that such a feature is not conducive of a drawing. Additionally, with respect to the number of gate holes, Applicants have amended the claims to clarify this feature of the invention and respectfully submit that Figure 6 illustrates this feature of the claims. Accordingly, Applicants respectfully request reconsideration and withdrawal of this objection.

In the Specification and Title

The Title of the Invention was objected to as allegedly being non-descriptive. Applicants have amended the Title of the Invention and respectfully submit that the amended Title of the Invention is descriptive. Accordingly, Applicants respectfully request reconsideration and withdrawal of this objection.

Claim Rejections Under 35 U.S.C. § 112

Claims 9 and 24 were rejected under 35 U.S.C. § 112, first paragraph. Applicants have amended claims 9 and 24 for clarity and respectfully submit that the proper support for the amended feature is illustrated in Figure 6 and the corresponding description in the originally filed specification. Accordingly, Applicants respectfully request reconsideration and withdrawal of this rejection.

Claim Rejections Under 35 U.S.C. § 102 and 103

A. Claims 1-3, 5, 17, 18, and 20 were rejected under 35 U.S.C. § 102(e) over Hofmann et al. (U.S. Publication No.2003/0184213) or alternatively under 35 U.S.C. § 103(a) over Applicants Admitted Prior Art (AAPA). Applicants respectfully traverse these rejections.

Claims 1 and 17 each recite, in part, a field emission display that includes a gate plate having gate holes and a gate electrode around the top of the gate holes, said gate holes having an inclined inner wall.

In contrast, neither AAPA or Hofmann teach or suggest such a feature. Specifically, with the field emitter gate taught by Hofmann, it is not possible to manufacture a gate structure formed on an independent insulation substrate or a thick insulation layer (i.e., 10's of um), since the overall structure of Hofmann is very thin (less the several um). To achieve the structure recited in claims 1 and 17, the slanted hole must be formed on a thick insulation layer (see, for example, paragraphs 19-21). Although the gate electrode 15 disclosed in Hofmann is shown slanted, the gate insulation film (the insulation film inside the gate hole) is not slanted. Additionally, AAPA does not remedy at least this deficiency of Hofmann.

Accordingly, no combination of AAPA and Hofmann teach or suggest, a field emission display that includes a gate plate having gate holes and a gate electrode around the top of the gate holes, said gate holes having an inclined inner wall, as recited in each of claims 1 and 17.

Claims 2, 3, 5, 18, and 20 are believed allowable for at least the reasons presented above with respect to claims 1 and 17 by virtue of their dependence upon claims 1 and 17.

Accordingly, Applicants respectfully request reconsideration and withdrawal of these rejections.

B. Claims 4, 6-8, 19, and 21-23 were rejected under 35 U.S.C. § 103(a) Hofmann in view of AAPA and further in view of Konishi et al. (U.S. Patent No. 6,580,223). Applicants respectfully traverse this rejection.

Claims 4, 6-8, 19, and 21-23 are believed allowable for at least the reasons presented above with respect to claims 1 and 17 by virtue of their dependence upon claims 1 and 17 and because Konishi does not remedy at least the deficiencies of Hofmann and AAPA discussed above with respect to claims 1 and 17. For example, with respect to claims 8 and 23, Konishi does not teach or suggest that a uniform DC voltage is applied to the gate of the field emitter, and the display signal is inputted by the control device. In the matrix display of Konishi, the

display signal voltage (a pulse signal) is applied to the gate of the field emitter, not the uniform DC voltage recited in claims 8 and 23. Accordingly, Applicants respectfully request reconsideration and withdrawal of this rejection.

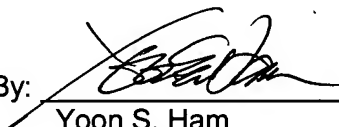
Conclusion

Therefore, all objections and rejections having been addressed, it is respectfully submitted that the present application is in a condition for allowance and a Notice to that effect is earnestly solicited.

Should any issues remain unresolved, the Examiner is encouraged to contact the undersigned attorney for Applicants at the telephone number indicated below in order to expeditiously resolve any remaining issues.

Respectfully submitted,

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